

SCREENING SITE INSPECTION WORK PLAN  
FOR  
WABASH PAPER COATING  
AKA MAFECOTE-WABASH PAPER COATING, INC.  
WABASH, INDIANA  
U.S. EPA ID: IND981961501  
SS ID: NONE  
TDD: F05-8802-004  
PAN: FIN0662SA

APRIL 18, 1990

Elements of this Screening Site Inspection Work Plan are considered confidential and pre-decisional in nature. Material and information contained within this report may not be released without the approval of the United States Environmental Protection Agency Region V Pre-Remedial Unit.



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment

recycled paper

A. GENERAL INFORMATION

CERCLIS SITE NAME: WABASH Paper Coatings  
ALSO KNOWN AS: MAFECOTE-WABASH Paper Coatings, INC.  
FORMERLY KNOWN AS: UNKnown  
ADDRESS: 410 S. Carroll  
CITY: WABASH  
STATE: INDIANA  
COUNTY: WABASH  
ZIP CODE: 46992  
U.S. EPA ID: IN981961501  
SSID:  
TDD: FOS-8802-004  
PAN: FIN06625A

PIT USE ONLY

WORK PLAN TYPE:  SCREENING SITE INSPECTION (SSI) WORK PLAN

OTHER: \_\_\_\_\_  
\_\_\_\_\_

PREPARED BY: Evelyn Mayes (FIT) DATE: APRIL 4, 1990

CCJM

REVIEWED BY: Dorothy L. Lee (FIT) DATE: 4/4/1990

APPROVED BY: V. Young Jr. (FIT) DATE: 4/10/90

U. S. EPA USE ONLY

REVIEWED BY: \_\_\_\_\_ (U.S. EPA) DATE: \_\_\_\_\_

\_\_\_\_ WORK PLAN APPROVED. Recommend issuance of TDD to implement the Work Plan.

\_\_\_\_ WORK PLAN APPROVED. No Further Remedial Action Planned (NFRAP).

\_\_\_\_ WORK PLAN REJECTED.

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_

## WORK PLAN 1

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## SITE MAPS 2

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## HRS WORKSHEETS 3

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## APPENDIX 4

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## REFERENCES 5

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SITE HISTORY (Continued)

Wabash Paper Coatings is an active facility, located on approximately 4 acres of land in Wabash, IN. The facility is 80 years old and has housed numerous manufacturing companies. The manufacturing companies that have occupied the site includes Papercoaters, thermostat manufacturers, and a foundry. Currently the facility is occupied by Wabash Paper Coatings (WPC). WPC manufactures paper products and employs approximately 6 people.

There are two interconnected buildings onsite. They occupy approximately one acre. The parking lot behind the facility may have been used for onsite disposal. Since 1966 untreated waste has been discharged into the city sewer system. The discharge wastes were found to have high BOD, solids and metal content. A permit was issued by IDEM for the disposal of asbestos waste generated by WPC. The site has no fence and hence is easily accessible.

# **WORK PLAN**

## INSPECTION WORK PLAN

THIS DOCUMENT IS CONFIDENTIAL. Due to the predecisional nature of this document, this document and its attachments are not to be released without prior approval of the United States Environmental Protection Agency (U.S. EPA).

This site inspection work plan (WP) has been prepared by Ecology and Environment, Inc., or its subcontractor, C. C. Johnson and Malhotra, P.C., under the field investigation team (FIT) contract with U.S. EPA (No. 68-01-7347).

The objectives of this WP are to:

- o Prepare a preliminary Hazard Ranking System (HRS) score using HRS 1 (40 CFR 300, July 16, 1982) criteria based on existing file information (Part C of WP);
- o Prepare projected HRS 1 scores based on experience and professional judgment (Part C of WP);
- o Identify HRS 1 score data gaps (Part E of WP); and
- o Propose site inspection activities to satisfy the HRS 1 score data gaps; technical approach and estimated LOE are provided (Parts E and I, respectively).

Unless otherwise stated, QA/QC protocol for site inspection activities is documented in the Quality Assurance Project Plan Region V FIT Conducted Site Inspections - May 1, 1987.

## B. SITE INFORMATION

This section of the WP presents current and historical information pertaining to the site, including: site operations, storage/disposal methods, site property area, site status, owners and operators, permit information, and response/enforcement activities. A site location map is shown on Figure 1, located in Section 2.

### 1. Site Operations (past and present; check all that apply):

Aboveground storage	Mining site
Belowground storage	Open dump
Chemical manufacturer	Ore processor
Drum recycler	Physical/chemical treatment
Electroplater	Recycler/reclaimer
Foundry	Surface impoundment
Incinerator	Underground injection
Landfarm	Well field
Landfill	Wood preserver
Midnight dump	✓ Other: <u>Paper Products</u> <u>manufacturers</u>

References: 10, 4,   ,   ,   

### 2. Storage/Disposal Methods (past and present; check all that apply):

Waste Quantity (amount/units of measure)
Drums, aboveground
Landfarm
Landfill
Open dump
Piles
Surface impoundment
Tank, aboveground
✓ Tank, belowground
✓ Other: <u>DISCHARGE TO SEWERS</u>

References: 9,   ,   ,   ,   

### 3. Site Property Area: 4 (acres)

References: 10, 4, 9, 17,   

### 4. Site History/Description and Unusual Features: (see following page.)

References: 17, 4, 10,   ,

5. Site Status: X Active \_\_\_\_\_ Inactive

References: 4, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

6. Owner/Operator History

Current Owner

Name: MILLEN INDUSTRIES

Address: 444 PARK AVENUE SOUTH

City, State, Zip Code: NEW YORK,  
NY, UNKNOWN

Years of Ownership: UNKNOWN

Comments: Non-responsive, PII

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_  
State: \_\_\_\_\_  
Zip: \_\_\_\_\_

Type of Operation: Private  
Years of Operation: 24

Previous owners  
(list most recent first)

Name: HONEYWELL

Address: UNKNOWN

City, State, Zip Code: UNKNOWN

Years of Ownership: UNKNOWN

Previous operators  
(list most recent first)

Name: UNKNOWN

Address: \_\_\_\_\_

City, State, Zip Code: \_\_\_\_\_

Type of Operation: UNKNOWN

Years of Operation: UNKNOWN

Name: FORD METER BOX

Address: UNK.

City, State, Zip Code: UNK.

Years of Ownership: UNKNOWN

Name: UNKNOWN

Address: \_\_\_\_\_

City, State, Zip Code: \_\_\_\_\_

Type of Operation: UNKNOWN

Years of Operation: UNKNOWN

References: 8, 4, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

7. Permit Information

Effective Date

Expiration Date

NPDES

\_\_\_\_\_

\_\_\_\_\_

UIC

\_\_\_\_\_

\_\_\_\_\_

AIR

\_\_\_\_\_

\_\_\_\_\_

RCRA, PART A PART B

\_\_\_\_\_

\_\_\_\_\_

SPCC PLAN

\_\_\_\_\_

\_\_\_\_\_

STATE (specify): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

LOCAL (specify): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

OTHER (specify): UNKNOWN

UNKNOWN

UNKNOWN

NONE

References: 4, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

8. Response Activities (previous and current site remediation; check all that apply):

- |   |  |
|---|--|
| <input type="checkbox"/> Water supply closed                      | <input type="checkbox"/> Cutoff trenches/sump      |
| <input type="checkbox"/> Temporary water supply provided          | <input type="checkbox"/> Subsurface cutoff wall    |
| <input type="checkbox"/> Permanent water supply provided          | <input type="checkbox"/> Barrier wall constructed  |
| <input type="checkbox"/> Spilled material removed                 | <input type="checkbox"/> Capping/covering          |
| <input type="checkbox"/> Contaminated soil removed                | <input type="checkbox"/> Bulk tankage repaired     |
| <input type="checkbox"/> Waste repackaged                         | <input type="checkbox"/> Grout curtain constructed |
| <input type="checkbox"/> Waste disposed elsewhere                 | <input type="checkbox"/> Bottom sealed             |
| <input type="checkbox"/> On-site burial                           | <input type="checkbox"/> Gas control               |
| <input type="checkbox"/> In situ treatment                        | <input type="checkbox"/> Fire control              |
| <input type="checkbox"/> Encapsulation                            | <input type="checkbox"/> Leachate treatment        |
| <input type="checkbox"/> Emergency waste treatment                | <input type="checkbox"/> Area evacuated            |
| <input type="checkbox"/> Cutoff walls                             | <input type="checkbox"/> Access to site restricted |
| <input type="checkbox"/> Emergency diking/surface water diversion | <input type="checkbox"/> Population relocated      |

Other remedial and enforcement activities: None

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References: \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

9. Documented and Alleged Target Compounds

Documented and alleged target compounds are compiled in Table 1. The documented target compounds are supported by analytical data from previous sampling projects. The alleged target compounds are based on the history of site operations and professional judgment. Documented and alleged target compound locations are shown on Figure 2, located in Section 2.

CMPND STATUS	MATRIX (✓)	DOCUMENTED COMPOUND AND CONCENTRATION OR ALLEGED COMPOUND AND RATIONAL						REFERENCE	
		DOCU	ALLEG	SOIL	SED	GW	SW	AIR	
ENTIRE SITE	X								Zinc, COPPER, CHROMIUM, SELENIUM, CADMIUM, LEAD
II	X								

Assume ENTIRE SITE TO BE Contaminated

**DOCUMENTED/ALLEGED TARGET COMPOUND LIST**

### C. PRELIMINARY/PROJECTED HRS SCORES

The purpose of this section is to:

- o Prepare a preliminary HRS 1 score based on existing file information; and
- o Prepare projected HRS 1 scores based on experience and professional judgment.

PRELIMINARY HRS SCORE (this score is based on existing file information that was obtained prior to the screening site inspection):

$$S_M = \underline{\textcircled{0}} \quad S_{FE} = \underline{\textcircled{0}} \quad S_{DC} = \underline{\textcircled{0}}$$

PROJECTED HRS SCORE FOR A SCREENING SITE INSPECTION (this score is based on the expected acquisition of information from the screening site inspection):

$$S_M = \underline{22.92} \quad S_{FE} = \underline{\textcircled{0}} \quad S_{DC} = \underline{37.50}$$

PROJECTED HRS SCORE FOR A LISTING SITE INSPECTION (this score is based on the expected acquisition of information from the Listing Site Inspection):

$$S_M = \underline{38.03} \quad S_{FE} = \underline{\textcircled{0}} \quad S_{DC} = \underline{37.50}$$

HRS 1 score worksheets are located in Section 3.

#### D. WORK SUMMARY

Based on the preliminary and projected HRS scores, a site inspection will be performed.

The objectives of the site inspection are to:

- o Provide information to satisfy HRS data gaps;
- o Develop the information base needed to permit U.S. EPA to evaluate the need for future site activities; including: immediate removal measures, additional investigation, or no further action; and
- o Characterize hazardous substances, pollutant dispersal pathways, types of receptors, facility management practices, and potentially responsible parties.

Specific tasks to be conducted during the site inspection are (check all that apply):

- Interview site owner(s)/representative(s)
- Take photographs of site and surrounding areas
- Screen site with safety instrumentation (i.e., HNU, OVA, O<sub>2</sub> meter, explosimeter, radiation detector, cyanide detector)
- Collect environmental samples
- Assess the need for Immediate Removal Actions
- FASP\*
- Soil gas monitoring\*
- Well point installations\*
- Geophysics\*: \_\_\_\_\_ (Specify)
- OTHER\*: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\* Rationale for these activities and their impact on HRS data gaps:

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#### E. PROPOSED SAMPLE PLAN

The HRS data gaps are identified in this section, and a proposed sample plan is developed based on the type of information required.

1. A) HRS data gap(s): WASTE CHARACTERISTICS

- B) Sampling proposed to satisfy HRS data gap(s):

Soil  Sediment  GW  SW  Air  Waste

- C) Sampling procedures (number and types of samples; equipment; methodology): Five Onsite soil sediment samples and two Potential background samples will be collected using garden trowels and stainless steel spoons and bowls. Soil Sample depths will reflect reported locations of disposal. Samples onsite will be collected from suspected areas of contamination and from potential migration pathways. All samples will be collected and packaged as per USEPA protocol

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented on Figure 3 in Section 2.

2. A) HRS data gap(s): NO GROUND WATER SAMPLES WILL BE COLLECTED DURING SSI.

- B) Sampling proposed to satisfy HRS data gap(s):

Soil  Sediment  GW  SW  Air  Waste

- C) Sampling procedures (number and types of samples; equipment; methodology): No monitoring wells are present onsite. No residential wells are within 5000 feet from site. Therefore no groundwater samples will be collected during the SSI.

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented in Figure 3, in Section 2.

Note: Sample locations and/or the number of samples may be changed or eliminated at the discretion of the site team leader in response to actual site conditions during the course of the inspection.

#### E. PROPOSED SAMPLE PLAN

The HRS data gaps are identified in this section, and a proposed sample plan is developed based on the type of information required.

3 A) HRS data gap(s): OBSERVE RELEASE TO SURFACE WATER

B) Sampling proposed to satisfy HRS data gap(s):

Soil Sediment GW ✓ SW Air Waste

C) Sampling procedures (number and types of samples; equipment; methodology): No Surface water samples will be collected since there are no surface water bodies in the vicinity of the site.

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented on Figure 3 in Section 2.

4 A) HRS data gap(s): OBSERVE RELEASE TO AIR

B) Sampling proposed to satisfy HRS data gap(s):

Soil Sediment GW SW ✓ Air Waste

C) Sampling procedures (number and types of samples; equipment; methodology): No Quantitative Air Sampling will be done during the SSI since there is no documentation of air contamination onsite.

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented in Figure 3, in Section 2.

Note: Sample locations and/or the number of samples may be changed or eliminated at the discretion of the site team leader in response to actual site conditions during the course of the inspection.

LOCATION	MATERIAL	RATIONALE FOR DETERMINING SAMPLE LOCATION										PARAMETERS <sup>1</sup>				
		SOIL	SED	GW	SW	AIR	WASTE	OTHER	AB/M	Pest/ PCB	VOA	METAL	CN <sup>-</sup>	OTHER		
S1	X								X	X	X	X	X	X		
S2	X								X	X	X	X	X	X		
S3	X								X	X	X	X	X	X		
S4	X								X	X	X	X	X	X		
S5	X								X	X	X	X	X	X		
S6	X								X	X	X	X	X	X		
S7	X								X	X	X	X	X	X		
TOTALS	7								7	7	7	7	7	7		

Target Compound List Attached

Table 2  
PROPOSED SAMPLE DESCRIPTIONS  
(INCLUDING ALL LABORATORY BLANKS AND DUPLICATES)

F. COMMENTS

None

G. HEALTH AND SAFETY

Proposed E & E Health and Safety protocol to be followed during site inspection.

1. Anticipated level of protection: A B C  D

2. Level of protection modifications: UPGRADE The level of Pro Protection IF ANY OF THE SITE ENTRY EQUIPMENT WARRANTS TO DO SO.

3. Work limitations (time of day, etc.): Work Would be carried out during daylight hours only. Buddy system will be observed at all times. ALL onsite Personnel will be monitored for heat / cold stress.

H. TYPE OF DELIVERABLE

Proposed report format to be submitted to U.S. EPA.

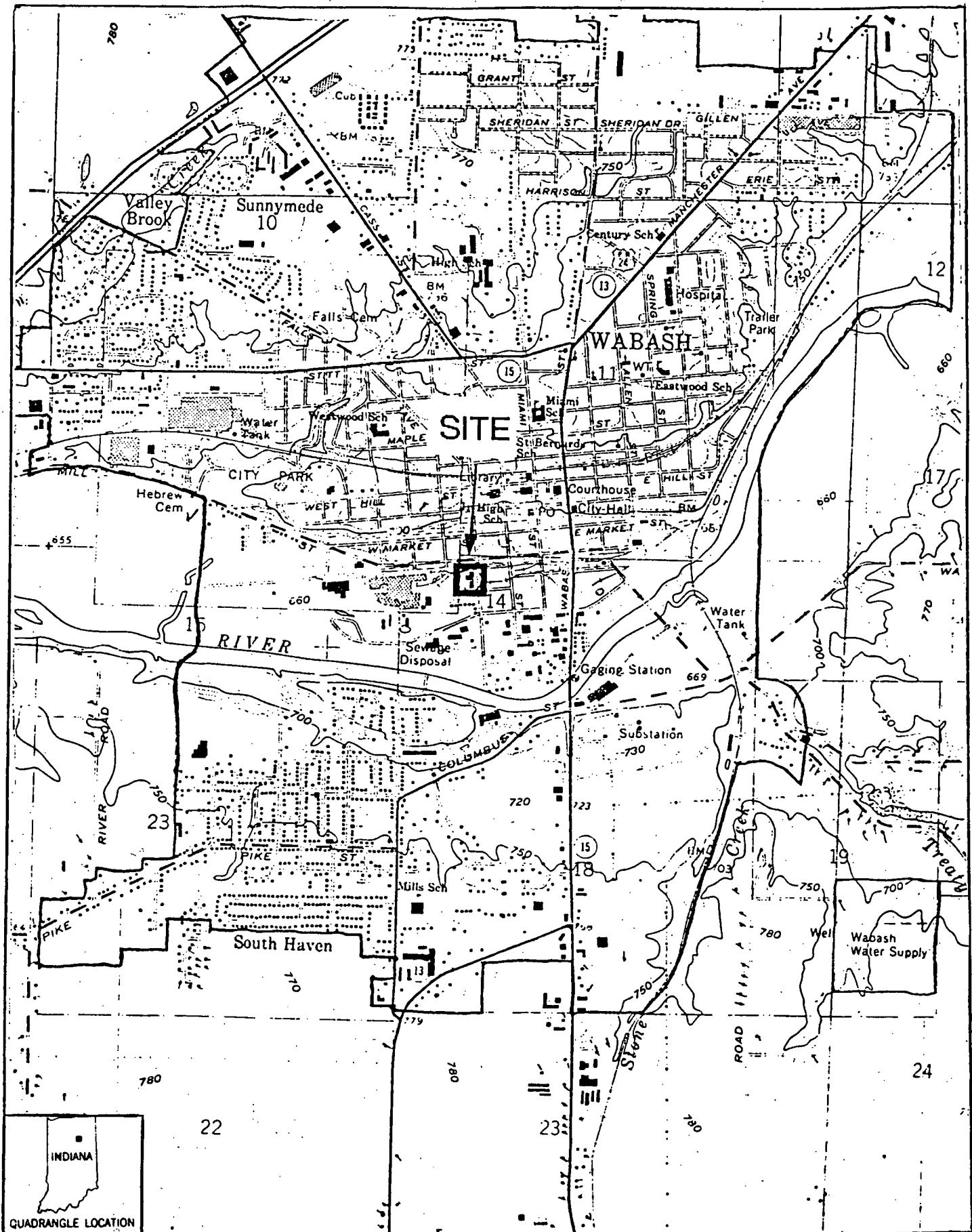
1.  SSI Report including U.S. EPA 2070-13 Form
2.  Letter Report
3.  Other \_\_\_\_\_

SUBTASK CODE		SUB TASK																			
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	TOTAL
TEAM LEADER	20	19	10	7	10	4	8														179
SAFETY OFFICER	2	3		2	10	4	8														29
SAMPLER	2			2	10	4	32														50
TEAM MEMBER	2			2	10	4	8														26
TEAM MEMBER	2			2	10	4	8														31
GENERAL / WAREHOUSE	2			2	10	4	8														6
FILE SEARCH/REVIEW																					
GENERAL / NON-SPECIFIC																					
WORK PLAN																					
SAFETY PLAN																					
QAPP																					
Mobilization/Demobilization																					
Travel																					
Non-Sampling Field Work																					
Sample Management																					
Field Sampling																					
Screening/Analytical																					
Subcontract																					
Meteorologic/Air Sampling Studies																					
Geophysical Work																					
Hydrogeological Work																					
Data Processing/Modeling																					
Data Validation																					
Draft Final Deliverable																					
Internal QA Review																					
Final Deliverable																					
Respond To Comments																					

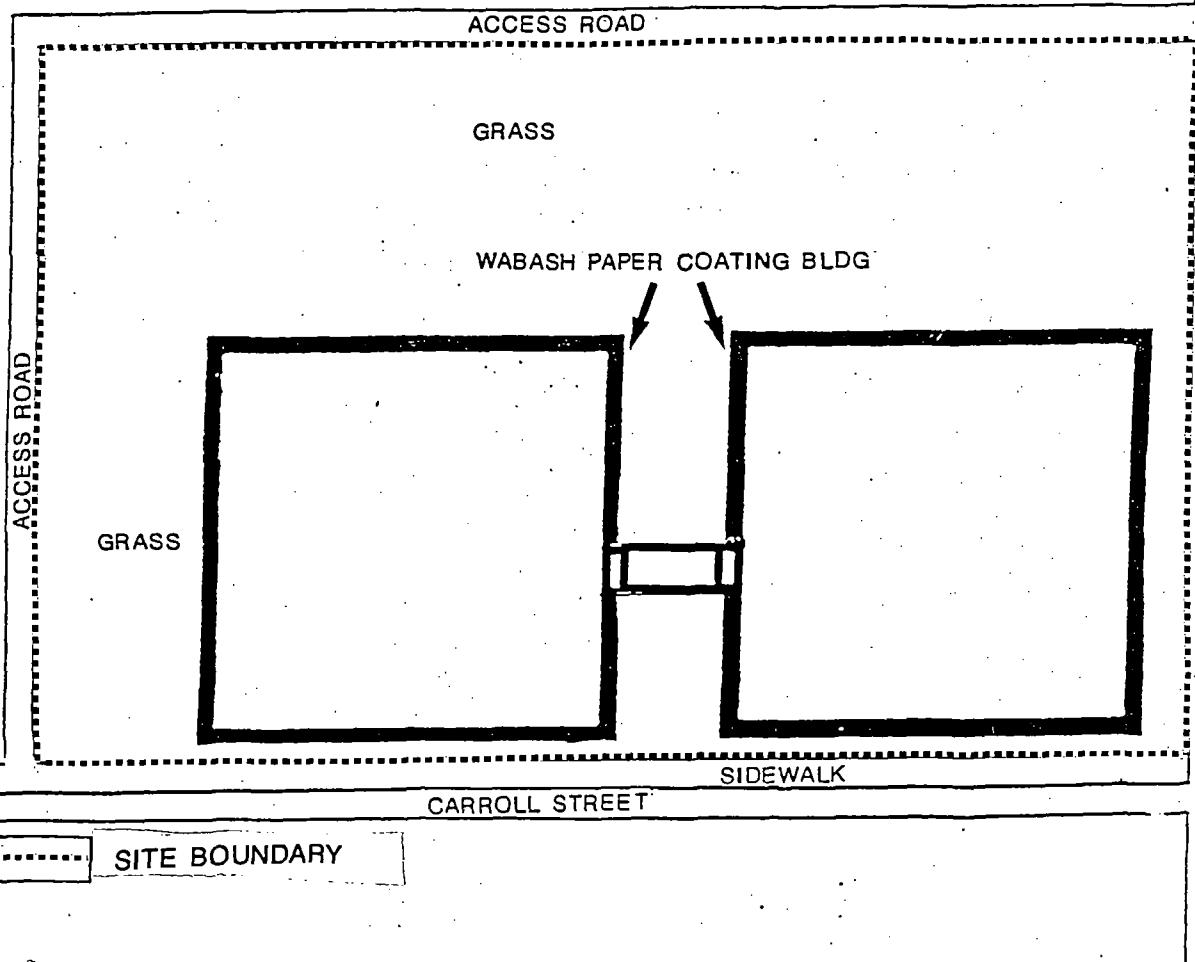
### 1. ESTIMATED LOE HOURS

SUMMARY OF PROJECTED HOURS NEEDED TO IMPLEMENT  
SITE INSPECTION AND COMPLETE SITE INSPECTION REPORT.

## **SITE MAPS**

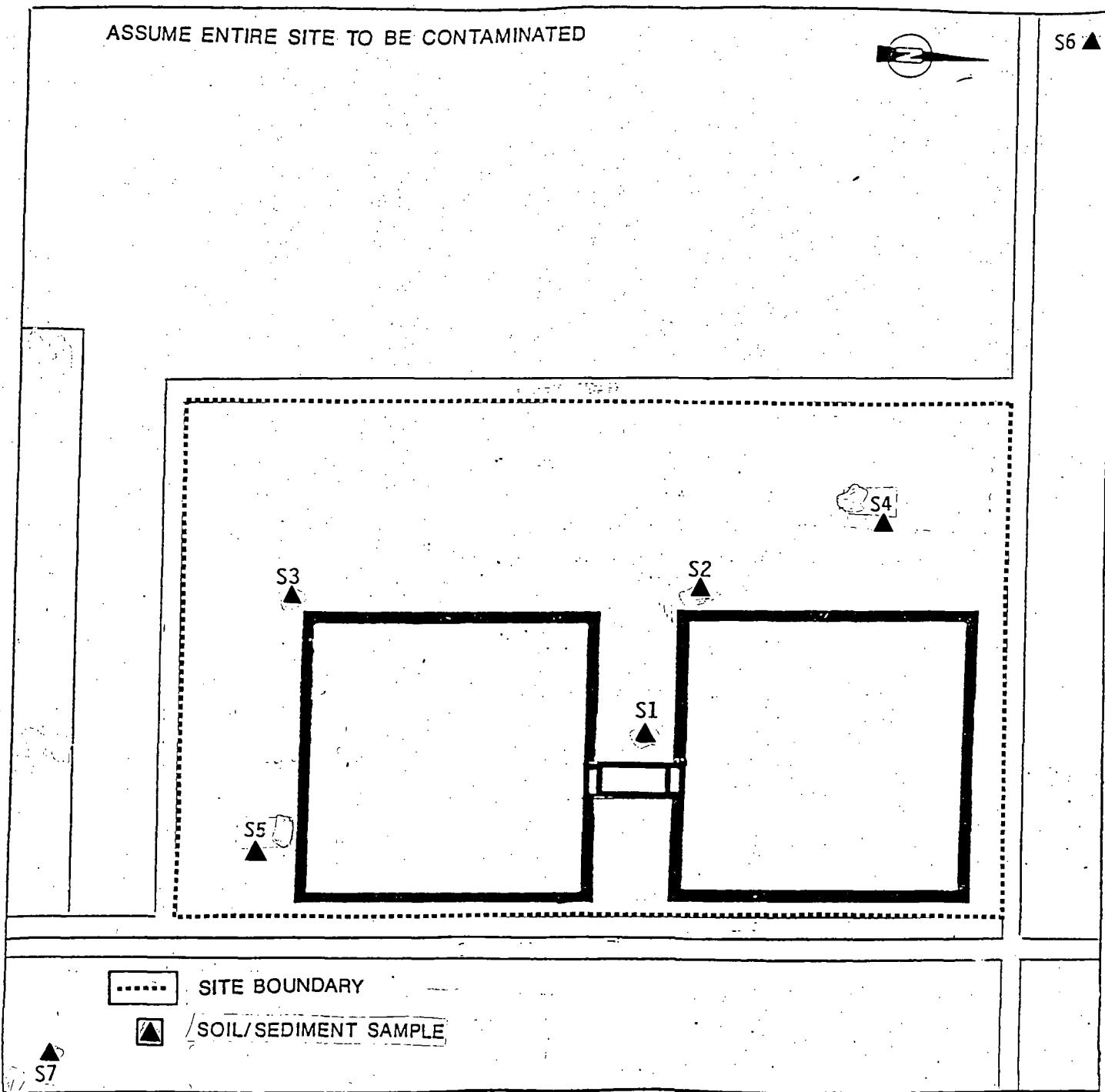


ASSUME ENTIRE SITE TO BE CONTAMINATED



SOURCE: FIT SITE DRIVE-BY FEBRUARY 12, 1990

FIGURE 2  
DOCUMENTED/ALLEGED TARGET COMPOUND MAP  
SCALE :1100



SOURCE: FIT SITE DRIVE-BY FEBRUARY 12, 1990

FIGURE 3  
SOIL/SEDIMENT SAMPLE LOCATION MAP  
SCALE 1:1100

# HRS WORKSHEETS

PRELIMINARY AND PROJECTED  
HAZARD RANKING SYSTEM  
SCORE WORKSHEETS

Site Name: WABASH PAPER COATING (Cerclis Name)  
MAFEKO-WABASH PAPER COATINGS INC. (A.K.A.)

Address: 410 S. CARROLL STREET

City/County/State/Zip WABASH / WABASH / INDIANA / 46992

Cerclis ID # IN981961501 SSID NONE

Prepared by Evelyn Mayes E&I Date April 4, 1990

Reviewed by Wabash Paint E&E Date April 4, 1990

TDD: F05-8802-004 PAN FIN066254

Type of Document

PA \_\_\_\_\_  
PA Reassessment \_\_\_\_\_  
WP-SSI ✓  
WP-LSI \_\_\_\_\_

PRELIMINARY HRS SCORE

$S_M = \underline{\text{0}}$        $S_{FE} = \underline{\text{0}}$        $S_{DC} = \underline{\text{0}}$

PROJECTED HRS SCORE FOR SCREENING SITE INSPECTION (SSI)

$S_M = \underline{22.92}$        $S_{FE} = \underline{\text{0}}$        $S_{DC} = \underline{37.50}$

PROJECTED HRS SCORE FOR LISTING SITE INSPECTION (LSI)

$S_M = \underline{38.03}$        $S_{FE} = \underline{\text{0}}$        $S_{DC} = \underline{37.50}$

### PRELIMINARY HRS SCORE

(THIS SCORE IS BASED ON EXISTING FILE INFORMATION THAT WAS OBTAINED PRIOR TO THE SCREENING SITE INSPECTION.)

	S	$S^2$
Groundwater Route Score ( $S_{gw}$ )	Ø	Ø
Surface Water Route Score ( $S_{sw}$ )	Ø	Ø
Air Route Score ( $S_A$ )	Ø	Ø
$S_{gw}^2 + S_{sw}^2 + S_A^2$		Ø
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2}$		Ø
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2} / 1.73 - S_M =$		Ø

### PROJECTED HRS SCORE FOR SCREENING SITE INSPECTION (SSI)

(THIS SCORE IS BASED ON THE EXPECTED ACQUISITION OF INFORMATION FROM THE SCREENING SITE INSPECTION.)

	S	$S^2$
Groundwater Route Score ( $S_{gw}$ )	39.31	1550
Surface Water Route Score ( $S_{sw}$ )	4.78	22.85
Air Route Score ( $S_A$ )	Ø	Ø
$S_{gw}^2 + S_{sw}^2 + S_A^2$		1572.85
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2}$		39.66
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2} / 1.73 - S_M =$		22.92

### PROJECTED HRS SCORE FOR LISTING SITE INSPECTION (LSI)

(THIS SCORE IS BASED ON THE EXPECTED ACQUISITION OF INFORMATION FROM THE LISTING SITE INSPECTION.)

	S	$S^2$
Groundwater Route Score ( $S_{gw}$ )	65.62	4306
Surface Water Route Score ( $S_{sw}$ )	4.78	22.85
Air Route Score ( $S_A$ )	Ø	Ø
$S_{gw}^2 + S_{sw}^2 + S_A^2$		4328.85
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2}$		65.79
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2} / 1.73 - S_M =$		38.03

# GROUNDWATER ROUTE

## PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
<input checked="" type="checkbox"/> Observed Release	0      45	x1	0	None Documented	
			II Observed Release scores 45 proceed to line 4 II Observed Release scores 0 proceed to line 21		
<input checked="" type="checkbox"/> Route Characteristics			Aquifer Description: <b>LIMESTONE OVERLAIN by SAND, GRAVEL + CLAY.</b>		
Depth to Aquifer of concern	0 1 <b>2</b> 3	x2	4	60 ft.	13
Net Precipitation	0 1 <b>2</b> 3	x1	2	+5.2 Precip 37.5 Evap 32.3	3
Permeability of the Unsaturated Zone	0 1 <b>2</b> 3	x1	0	CLAY cm/sec	1
Physical State	0 1 2 <b>3</b>	x1	3	Sludge	4
			Total Route Char. Score	9	
<input checked="" type="checkbox"/> Containment	0 1 2 3	x1	0	UNKNOWN	
<input checked="" type="checkbox"/> Waste Characteristics					
Persistence	0      1      2      3				
Toxicity	0      0      0      0	x1	0	UNKNOWN	
1      3      6      9      12					
2      6      9      12      15					
3      9      12      15      18					
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1	0	Tox. perist : UNKNOWN	
			Total Waste Char. Score	0	UNKNOWN
<input checked="" type="checkbox"/> Targets					
Groundwater Use	0 1 2 <b>3</b>	x3	9	DRINKING	14
Distance to Nearest Well	0      1      2      3      4				
0      0      0      0      0					
1      0      4      6      8      10					
2      0      8      12      16      20					
3      0      12      18      24      30					
4      0      16      24      32      35					
5      0      20      30      35      40					
			Total Targets Score	35	Nearst well is APPROX 1 mile
				36,398 SERVED	5,677
<input checked="" type="checkbox"/> If line 1 is 45, multiply <input type="checkbox"/> x <input type="checkbox"/> x <input type="checkbox"/>					
If line 1 is 0, multiply <input type="checkbox"/> x <input type="checkbox"/> x <input type="checkbox"/> x <input type="checkbox"/>				0	
<input checked="" type="checkbox"/> Divide line <input type="checkbox"/> by 57,330 and multiply by 100				S <sub>gw</sub> = <input type="checkbox"/>	

# GROUNDWATER ROUTE

## PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
<input checked="" type="checkbox"/> Observed Release	0	x1	0	None DOCUMENTED	
			If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 21		
<input checked="" type="checkbox"/> Route Characteristics			Aquifer Description:  LIMESTONE OVERLAIN BY SAND, GRAVEL & CLAY 13		
Depth to Aquifer of concern	0 1 2 3	x2	4	60 ft.	13
Net Precipitation	0 1 2 3	x1	2	Precip 37.5 Evap 32.5	3
Permeability of the Unsaturated Zone	0 1 2 3	x1	0	CLAY cm/sec	1
Physical State	0 1 2 3	x1	3	sludge	4
			Total Route Char. Score	9	
<input checked="" type="checkbox"/> Containment	0 1 2 3	x1	3	ASSUME None	
<input checked="" type="checkbox"/> Waste Characteristics			Alleged: CHROMIUM, LEAD, COPPER 4, 9, 10		
Persistence	0 1 2 3			CHROMIUM	
Toxicity	0 0 0 0 0 1 3 6 9 12 2 6 9 12 15 3 9 12 15 18	x1	18	SELENIUM, 21	9, 10, 4
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1	1	ASSUME TOX: 3 Persist: 3	
			Total Waste Char. Score	19	Assume Present
<input checked="" type="checkbox"/> Targets			DRINKING 14		
Groundwater Use	0 1 2 3	x3	9		
Distance to Nearest Well	0 1 2 3 4 0 0 0 0 0 1 0 4 6 8 10 2 0 8 12 16 20 3 0 12 18 24 30 4 0 16 24 32 35 5 0 20 30 35 40	x1		Nearest well is 5000 FEET	6
Population Served		x1	35	36, 398 SERVED	5, 6, 7, 14
			Total Targets Score	44	
<input checked="" type="checkbox"/> If line 11 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			22572		
<input checked="" type="checkbox"/>	Divide line 1 by 57,330 and multiply by 100		S <sub>gw</sub> =	39.37	

# FIRE AND EXPLOSION

## PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
<input type="checkbox"/> 1 Containment	1      3	x1		NONE DOCUMENTED	*15
<input type="checkbox"/> 2 Waste Characteristics					
Direct Evidence	0      3	x1			
Ignitability	0      1      2      3	x1			
Reactivity	0      1      2      3	x1			
Incompatibility	0      1      2      3	x1			
Haz. Waste Quantity	0      1      2      3      4      5      6      7      8	x1			
Total Waste Char. Score					
<input type="checkbox"/> 3 Targets					
Dist. to Nearest Pop.	0      1      2      3      4      5	x1			
Dist. to Nearest Bldg.	0      1      2      3	x1			
Dist. to Sensitive Env.	0      1      2	x1			
Land Use	0      1      2      3	x1			
Pop. Within 2 miles	0      1      2      3      4      5	x1			
Bldgs. Within 2 miles	0      1      2      3      4      5	x1			
Total Targets Score					
<input type="checkbox"/> 4 Multiply <input type="checkbox"/> 1 x <input type="checkbox"/> 2 x <input type="checkbox"/> 3					
<input type="checkbox"/> 5 Divide line 4 by 1,440 and multiply by 100 $S_{FE} =$					

\* According to The Fire Chief There ARE NO Recordings  
of Fire/Explosion Hazards AT THE SITE.

# GROUNDWATER ROUTE

## PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #	
<input checked="" type="checkbox"/> 1 Observed Release	0 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">45</span>	x1	45	OBSERVE RELEASE AFTER INSTALLATION OF M WELLS		
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2						
<input checked="" type="checkbox"/> 2 Route Characteristics					Aquifer Description:	
Depth to Aquifer of concern	0 1 2 3	x2		41.		
Net Precipitation	0 1 2 3	x1		Precip Evap		
Permeability of the Unsaturated Zone	0 1 2 3	x1		cm/sec		
Physical State	0 1 2 3	x1				
Total Route Char. Score						
<input checked="" type="checkbox"/> 3 Containment	0 1 2 3	x1				
<input checked="" type="checkbox"/> 4 Waste Characteristics					Alleged: SELENIUM, ZINC, COPPER, CHROMIUM, CADMIUM, LEAD	49,10
Persistence	0 1 2 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">3</span>					
Toxicity	0 0 0 0 0 1 3 6 9 12 2 6 9 12 15 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">3</span> 9 12 15 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">18</span>	x1	18	Assume Toxicity: 3	4,9,10	
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1	1	Assume Present		
Total Waste Char. Score						
<input checked="" type="checkbox"/> 5 Targets						
Groundwater Use	0 1 2 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">3</span>	x3	9	DRINKING	14	
Distance to Nearest Well	0 1 2 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">3</span> 4					
Population Served	0 0 0 0 0 1 0 4 6 8 10 2 0 8 12 16 20 3 0 12 18 24 30 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">4</span> 0 16 24 22 35 5 0 20 30 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">35</span> 40	x1	35	Nearst well is 1 mile 36,398 SERVED	15,6714	
Total Targets Score						
<input checked="" type="checkbox"/> 6 If line 1 is 45, multiply <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">1</span> x <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">4</span> x <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">5</span>						
If line 1 is 0, multiply <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> x <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">3</span> x <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">4</span> x <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">5</span>					37620	
<input checked="" type="checkbox"/> 7 Divide line 6 by 57,330 and multiply by 100					$S_{gw} = 65.62$	

# SURFACE WATER ROUTE

## PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
<input type="checkbox"/> 1 Observed Release	0      45	x 1	0	NONE DOCUMENTED	
If Observed Release scores 45 proceed to line 14 If Observed Release scores 0 proceed to line 21					
<input type="checkbox"/> 2 Route Characteristics	Intervening Terrain			Facil 0 %	
	Facility	0 0 0 3	x 1	0	Interv 0 %
	Slope	0 1 2 3 0 2 2 3 0 2 3 3			
	1-yr. 24 hr Rainfall	0 1 2 3	x 1	2	2.48 in.
	Distance to Nearest Surface Water	0 1 2 3	x 2	4	WABASH RIVER 1500 FEET
	Physical State	0 1 2 3	x 1	3	SLUDGE
	Total Route Char. Score			9	
<input type="checkbox"/> 3 Containment	0 1 2 3	x 1	0	UNKNOWN	
<input type="checkbox"/> 4 Waste Characteristics					
Persistence	0 1 2 3				
Toxicity	0 0 0 0 1 3 6 9 12 2 6 9 12 15 3 9 12 15 18	x 1	0	UNKNOWN	
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x 1	0	UNKNOWN	
	Total Waste Char. Score			0	
<input type="checkbox"/> 5 Targets					
Surface Water Use	0 1 2 3	x 3	6	WABASH RIVER RECREATION	14
Dist. to Sensitive Environment	0 1 2 3	x 2	0	NONE DOCUMENTED	
	Distance to Water Intake Downstream				
Population Served	0 0 0 0 0 4 6 8 10 0 8 12 16 20 0 12 18 24 30 0 16 24 32 35 0 20 30 35 40	x 1	6	NO SW USED FOR DRINKING in Area	14
	Total Targets Score			6	NONE SERVED
<input type="checkbox"/> 6 If line 1 is 45, multiply 1 x 4 x 5					
If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
<input type="checkbox"/> 7 Divide line 6 by 64,350 and multiply by 100				$S_{sw} =$	0

# SURFACE WATER ROUTE

## PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
<input type="checkbox"/> Observed Release	0	45	x 1	0	NONE DOCUMENTED
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
<b>2 Route Characteristics</b>					
Intervening Terrain				Facil 0 %	
Facility	0 0 0 3	x 1	0	Interv 0 %	
Slope	0 1 2 2 3				
1-yr. 24 hr Rainfall	0 1 2 3	x 1	2	2.48 in.	2
Distance to Nearest Surface Water	0 1 2 3	x 2	4	WABASH RIVER 1500 FEET	6
Physical State	0 1 2 3	x 1	3	Sludge	4
Total Route Char. Score			9		
<input type="checkbox"/> Containment	0 1 2 3	x 1	3	Assume NONE	
<b>4 Waste Characteristics</b>					
Persistence	0 1 2 3			Alleged: Zinc, Selenium, Chromium, Cadmium, Lead	4, 9/10
Toxicity	0 0 0 0 1 3 6 9 12 2 6 9 12 15 3 9 12 15 18	x 1	18	Assume Tox: 3 Persist: 3	
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x 1	1	Assume Present	
Total Waste Char. Score			19		
<b>5 Targets</b>					
Surface Water Use	0 1 2 3	x 3	6	WABASH RIVER RECREATION -	14
Dist. to Sensitive Environment	0 1 2 3	x 2	0	NONE DOCUMENTED	
Distance to Water Intake Downstream				NO SW USED FOR DRINKING IN AREA	14
Population Served	0 0 0 0 0 4 6 8 10 0 8 12 16 20 0 12 18 24 30 0 16 24 32 35 0 20 30 35 40	x 1	0	NONE SERVED	
Total Targets Score			6		
<input type="checkbox"/> If line 1 is 45, multiply 1 x 4 x 5 <input type="checkbox"/> If line 1 is 0, multiply 2 x 3 x 4 x 5			3078		
<input type="checkbox"/> Divide line 6 by 64,350 and multiply by 100			$S_{sw} =$	4.78	

# SURFACE WATER ROUTE

## PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
<b>1</b> Observed Release	0	x 1	0	NONE DOCUMENTED	
II Observed Release scores 45 proceed to line 4					
II Observed Release scores 0 proceed to line 21					
<b>2</b> Route Characteristics					
Intervening Terrain				Facil 0 %	
Facility	0 0 0 0 3	x 1	0	Interv 0 %	
Slope	0 1 2 2 3				
	0 2 2 3 3				
	0 2 3 3 3				
1-yr. 24 hr Rainfall	0 1 2 3	x 1	2	2.48 in.	2
Distance to Nearest Surface Water	0 1 2 3	x 2	4	WABASH RIVER 1500 FEET	6
Physical State	0 1 2 3	x 1	3	SLUDGE	4
Total Route Char. Score			9		
<b>3</b> Containment	0 1 2 3	x 1	3	ASSUME NONE	
<b>4</b> Waste Characteristics					
Persistence	0 1 2 3			Alleged: CHROMIUM, SELENIUM, ZINC, LEAD, COPPER, CADMIUM	4, 9, 10
Toxicity	0 0 0 0 0	x 1	18	Assume Tox: 3 Persist: 3	
1 3 6 9 12					
2 6 9 12 15					
3 9 12 15 18					
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x 1	1	Assume Present	
Total Waste Char. Score			19		
<b>5</b> Targets					
Surface Water Use	0 1 2 3	x 3	6	WABASH RIVER RECREATION	14
Dist. to Sensitive Environment	0 1 2 3	x 2	8	None Documented	
Distance to Water Intake Downstream					
Population Served	0 0 0 0 0	x 1	0	NO SW USED FOR DRINKING IN AREA	14
0 4 6 8 10					
0 8 12 16 20					
0 12 18 24 30					
0 16 24 32 35					
0 20 30 35 40					
Total Targets Score			6		
<b>6</b> If line 1 is 45, multiply 1 x 4 x 5					
If line 1 is 0, multiply 2 x 3 x 4 x 5			3078		
<b>7</b> Divide line 6 by 64,350 and multiply by 100				$S_{sw} =$	
				4.78	

## AIR ROUTE

## PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #	
<b>1</b> Observed Release	0      45	x1	0	none documented	*	
If line 1 is 0, the $S_a = 0$ . Enter on line 5 If line 1 is 45, then proceed to line 2						
<b>2</b> Waste Characteristics						
Reactivity & Incompatibility	0 1 2 3	x1				
Toxicity	0 1 2 3	x3				
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1				
Total Waste Char. Score						
<b>3</b> Targets						
Dist to Population						
Population within 4-mile Radius	Pop.	0 0 0 0 9 12 15 18 12 15 18 21 15 18 21 24 18 21 24 27 21 24 27 30	x1			
Distance to Sensitive Environment	0 1 2 3	x2				
Land Use	0 1 2 3	x1				
Total Targets Score						
<b>4</b> Multiply 1 x 2 x 3						
0						
<b>5</b> Divide line 4 by 35,100 and multiply by 100						
$S_a = 0$						

\* NO RECORDS OF Air Contamination AT SITE

## AIR ROUTE

## PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
<input type="checkbox"/> Observed Release	0      45	x1	0	None Documented	*
If line 1 is 0, the $S_a=0$ . Enter on line 5. If line 1 is 45, then proceed to line 2					
<b>2 Waste Characteristics</b>					
Reactivity & Incompatibility	0    1    2    3	x1			
Toxicity	0    1    2    3	x3			
Haz. Waste Quantity	0    1    2    3    4    5    6    7    8	x1			
<b>Total Waste Char. Score</b>					
<b>3 Targets</b>					
Population within 4-mile Radius	Dist to Population 0    0    0    0 9    12    15    18 12    15    18    21 15    18    21    24 18    21    24    27 21    24    27    30	x1			
Distance to Sensitive Environment	0    1    2    3	x2			
Land Use	0    1    2    3	x1			
<b>Total Targets Score</b>					
<b>4 Multiply 1 x 2 x 3</b>					
<b>5 Divide line 4 by 35,100 and multiply by 100</b> $S_a = \emptyset$					

\* NO Qualitative Air Sampling will BE DONE AT SITE DURING SSI Since there ARE NO RECORDS OF AIR CONTAMINATION AT THE SITE

## AIR ROUTE

## PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
① Observed Release	0 45	x1	0	NONE DOCUMENTED	*
If line ① is 0, the $S_a = 0$ . Enter on line 5. If line ① is 45, then proceed to line 2.					
② Waste Characteristics					
Reactivity & Incompatability		0 1 2 3	x1		
Toxicity		0 1 2 3	x3		
Haz. Waste Quantity		0 1 2 3 4 5 6 7 8	x1		
Total Waste Char. Score					
③ Targets					
Population within 4-mile Radius		Pop.	Dist to Population		
			0 0 0 0		
			9 12 15 18		
			12 15 18 21		
			15 18 21 24		
			18 21 24 27	x1	
			21 24 27 30		
Distance to Sensitive Environment		0 1 2 3	x2		
Land Use		0 1 2 3	x1		
Total Targets Score					
④ Multiply ① x ② x ③				0	
⑤ Divide line ④ by 35,100 and multiply by 100				$S_a =$	0

\* During LISTING SI Qualitative Air Sampling will  
ONLY BE DONE IF DURING SSI ANY CONTAMINATION OF  
AIR IS OBSERVED.

# DIRECT CONTACT

## PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #	
1 Observed Incident	0 45	x1	0	None Documented		
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2						
2 Accessibility	0 1 2 3	x1	3	NO FENCE PRESENT	17,10	
3 Containment	0 15	x1	0	UNKNOWN		
4 Waste Characteristics						
Toxicity	0 1 2 3	x5	0	UNKNOWN		
5 Targets						
Pop. Within 1 mile	0 1 2 3 4 5	x4	12	2605 people	5	
Dist. to Crit. Habitat	0 1 2 3	x4	0	UNKNOWN		
Total Targets Score:				12		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5					0	
7 Divide line 6 by 21,600 and multiply by 100					$S_{DC} = 0$	

# FIRE AND EXPLOSION

## PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
<input checked="" type="checkbox"/> 1 Containment	1      3	x 1		<i>NONE DOCUMENTED</i>	* 15
<input checked="" type="checkbox"/> 2 Waste Characteristics					
Direct Evidence	0      3	x 1			
Ignitability	0    1    2    3	x 1			
Reactivity	0    1    2    3	x 1			
Incompatibility	0    1    2    3	x 1			
Haz. Waste Quantity	0    1    2    3    4    5    6    7    8	x 1			
<b>Total Waste Char. Score</b>					
<input checked="" type="checkbox"/> 3 Targets					
Dist. to Nearest Pop.	0    1    2    3    4    5	x 1			
Dist. to Nearest Bldg.	0    1    2    3	x 1			
Dist. to Sensitive Env.	0    1    2    3	x 1			
Land Use	0    1    2    3	x 1			
Pop. Within 2 miles	0    1    2    3    4    5	x 1			
Bldgs. Within 2 miles	0    1    2    3    4    5	x 1			
<b>Total Targets Score</b>					
<input checked="" type="checkbox"/> 4 Multiply <input checked="" type="checkbox"/> 1 x <input checked="" type="checkbox"/> 2 x <input checked="" type="checkbox"/> 3					
<input checked="" type="checkbox"/> 5 Divide line 4 by 1,440 and multiply by 100					$S_{FE} =$

\* According To The Fire Chief There Are No Records  
of Fire/Explosion Hazards AT THE SITE

# FIRE AND EXPLOSION

## PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
<input type="checkbox"/> Containment	3	x1	[ ]	none Documented *15	
<b>2 Waste Characteristics</b>					
Direct Evidence	0      1      2      3	x1	[ ]		
Ignitability	0      1      2      3	x1	[ ]		
Reactivity	0      1      2      3	x1	[ ]		
Incompatability	0      1      2      3	x1	[ ]		
Haz. Waste Quantity	0      1      2      3      4      5      6      7      8	x1	[ ]		
Total Waste Char. Score			[ ]		
<b>3 Targets</b>					
Dist. to Nearest Pop.	0      1      2      3      4      5	x1	[ ]		
Dist. to Nearest Bldg.	0      1      2      3	x1	[ ]		
Dist. to Sensitive Env.	0      1      2      3	x1	[ ]		
Land Use	0      1      2      3	x1	[ ]		
Pop. Within 2 miles	0      1      2      3      4      5	x1	[ ]		
Bldgs. Within 2 miles	0      1      2      3      4      5	x1	[ ]		
Total Targets Score			[ ]		
<b>4</b> Multiply <input type="checkbox"/> x <input type="checkbox"/> x <input type="checkbox"/>					
<b>5</b> Divide line <input type="checkbox"/> by 1,440 and multiply by 100 $S_{FE} =$ [ ]					

\* ACCORDING TO THE FIRE CHIEF THERE ARE NO RECORDS OF FIRE/EXPLOSION HAZARDS AT THE SITE.

# DIRECT CONTACT

## PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Incident	0 45	x1	0	None Documented	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 2 3	x1	3	No Fence Present	10,17
3 Containment	0 15	x1	15	Assume None	
4 Waste Characteristics					
Toxicity	0 1 2 3	x5	15	Tox : 3	4
5 Targets					
Pop. Within 1 mile	0 1 2 3 4 5	x4	12	2605 People	5
Dist. to Crit. Habitat	0 1 2 3	x4	0	None Documented	
Total Targets Score			12		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			8100		
7 Divide line 6 by 21,600 and multiply by 100			S <sub>DC</sub> = 37.50		

# DIRECT CONTACT

## PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
① Observed Incident	0	x1	0	NONE Documented	
If line 1 is 45, proceed to line 4. If line 1 is 0, proceed to line 2.					
② Accessibility	0 1 2 3	x1	3	NO FENCE present	10,17
③ Containment	0 15	x1	15	ASSUME NONE	
④ Waste Characteristics					
Toxicity	0 1 2 3	x5	15	Tox: 3	4
⑤ Targets					
Pop. Within 1 mile	0 1 2 3 4 5	x4	12	2605 People	5
Dist. to Crit. Habitat	0 1 2 3	x4	0	NONE Documented	
	Total Targets Score		12		
⑥ If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			8100		
⑦ Divide line 6 by 21,600 and multiply by 100		S <sub>DC</sub> =	37.50		

## **APPENDIX**

## REFERENCES

Copies of the following addenda have been supplied to the U.S. Environmental Protection Agency and the appropriate state agencies. Refer to these addenda when reviewing this work plan.

Addendum	Title
A	Routine Analytical Services Contract Required Detection and Quantitation Limits
B	Central Regional Laboratory Detection Limits
C	Special Analytical Services Detection Limits Drinking Water Samples
D	Special Analytical Services Detection Limits High Concentration Samples

## REFERENCE DOCUMENTATION SHEET

Ref.#	DESCRIPTION OF REFERENCE
1	U.S. ENVIRONMENTAL PROTECTION AGENCY, JULY 16, 1982, <u>UNCONTROLLED HAZARDOUS WASTE SITE RANKING SYSTEM; A USER'S MANUAL, NATIONAL OIL AND HAZARDOUS SUBSTANCES CONTINGENCY PLAN APPENDIX A,</u> (40 CFR 300) (47 FR 31219), WASHINGTON, D.C.
2	U.S. DEPARTMENT OF COMMERCE, 1963, <u>RAINFALL FREQUENCY ATLAS OF THE UNITED STATES, TECHNICAL PAPER NO. 40</u> , WASHINGTON, D.C., U.S. GOVERNMENT PRINTING OFFICE.
3	U.S. DEPARTMENT OF COMMERCE, 1979, <u>Climatic Atlas of the United States</u> , ASHVILLE, N.C., NATIONAL CLIMATIC CENTER.
4	U.S. ENVIRONMENTAL PROTECTION AGENCY, <u>POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT, FOR WABASH PAPER COATINGS</u> SUBMITTED ON OCTOBER 15, 1989 by Mary Anne Hunter INDIANA DEPARTMENT ENVIRONMENTAL MANAGEMENT.

## REFERENCE DOCUMENTATION SHEET

Ref. #	DESCRIPTION OF REFERENCE
5	Population Calculations For WABASH PAPER Coatings, October 17, 1989 by Evelyn Mayes, Biologist.
6	U.S. G.S. 7.5 MINUTE SERIES TOPOGRAPHICAL MAP, WABASH, IN QUADRANGLE - 1981 RICH VALLEY, IN QUADRANGLE 1981 Somerset, IN QUADRANGLE 1969 PEORIA, IN QUADRANGLE - 1969
7	U.S. DEPARTMENT OF COMMERCE, MARCH 1988, ESTIMATES OF HOUSEHOLDS FOR COUNTIES: July 1, 1985, WASHINGTON D.C., BUREAU OF THE CENSUS.
8	WABASH COUNTY HEALTH DEPT., OCTOBER 5, 1989 Telephone Conversation with BRIAN WALLICH BY MARY ANN HUNTER, IBEM.

## REFERENCE DOCUMENTATION SHEET

Ref. #	DESCRIPTION OF REFERENCE
9	WASTEWATER TREATMENT AND STATE DEPARTMENT Public Works, October 5, 1989, Telephone Conversation with John Wunderly by Mary Ann HUNTER, IDEM.
10	WABASH PAPER COATINGS, October 6, 1987, Telephone Conversation with ED BEAM, Plant Manager by Mary Ann Hunter, IDEM.
11	STATE BOARD OF HEALTH, March 30, 1966 <u>INDUSTRIAL WASTE DISPOSAL FACILITIES, WABASH</u> <u>PAPER COATINGS, INC. Indianapolis,</u> A.C. OFFUTT, M.D.
12	STATE OF INDIANA ENVIRONMENTAL MANAGEMENT BOARD, SEPTEMBER 26, 1985, DISPOSAL OF ASBESTOS PIPE INSULATION FROM WABASH PAPER COATINGS, INDIANAPOLIS, RALPH PICKARD.

## REFERENCE DOCUMENTATION SHEET

Ref.#	DESCRIPTION OF REFERENCE
13	DEPARTMENT of Natural Resources - INDIANA, MAY 20, 1960 thru MAY 17, 1978, GROUND- WATER WELL LOGS, INDIANAPOLIS, Division OF WATER.
14	Indiana City Water Corporation, October 16, 1989, Telephone Conversation with Boyd Hyner, District Superintendent by Evelyn May Jr., Biologist.
15	WABASH Fire Dept, February 28, 1990 Telephone Conversation with Chief Mullett by Evelyn May Jr., CCJW, Twinsburg, HARRIS, Robert A.
16	HARRIS, BEATRICE R, 1983, 1984 HARRIS Indiana Industrial Directory

## REFERENCE DOCUMENTATION SHEET

Ref.#	DESCRIPTION OF REFERENCE
17	February 12, 1990, WABASH Paper Coatings SITE-DRIVE BY by Evelyn Mayes, CCJM
18	WABASH County Health Department October 18, 1989, Telephone Conversation with Greg LONG, Environmental Sanitarian By Evelyn Mayes, CCJM.

SOURCES AND DATES OF INFORMATION COLLECTION

SOURCE

- 1) State Hazardous/Solid Waste Files
- 2) State Water Files
- 3) State Air Files
- 4) State Department of Health
- 5) State Geological Survey
- 6) State Department of Natural Resources
- 7) State Fire Marshall
- 8) County Department of Health
- 9) County Engineer
- 10) County Clerk/Recorder of Deeds
- 11) City Department of Health
- 12) City Engineer
- 13) City Fire Department/Fire Marshall
- 14) City Water/Sewer Department
- 15) U.S. Soil Conservation Service
- 16) Others

DATE

2/15/88

2/15/88

2/15/88

10-18-89

2-28-90

10-16-89

STATE CONTACT(S): HARRY ATKINSON  
(name)

317-232-8927  
(phone number)

(name)

(phone number)